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(71) Applicants (*for all designated States except US*):  
**QUEENSLAND UNIVERSITY OF TECHNOLOGY**  
[AU/AU]; Gardens Point Campus, 2 George Street,  
Brisbane, QLD 4000 (AU). **WORRINGHAM, Charles**  
[AU/AU]; c/- Queensland University of Technology,  
School of Human Movement Studies, Victoria Park Road,  
Kelvin Grove, QLD 4059 (AU).

(72) Inventors; and

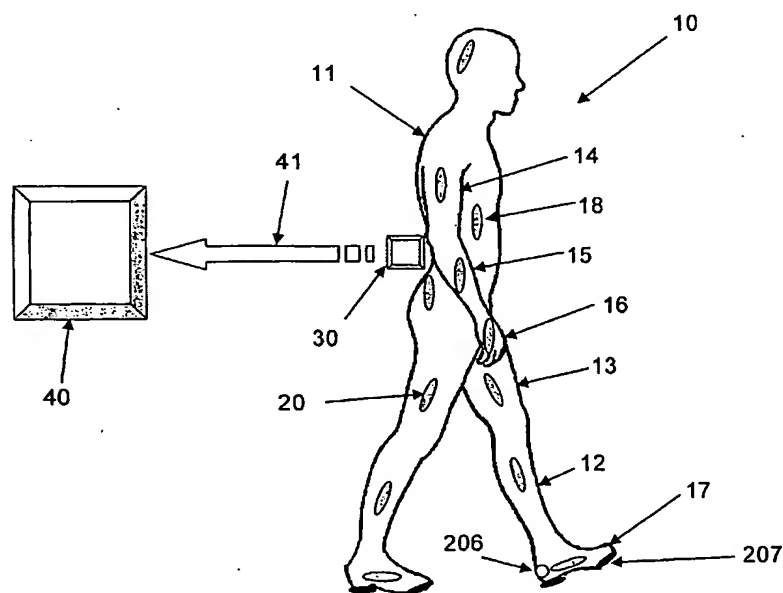
(75) Inventors/Applicants (*for US only*): **JASIEWICZ, Jan** [AU/AU]; c/- Queensland University of Technology, School of Human Movement Studies, Victoria Park Road, Kelvin Grove, QLD 4059 (AU). **CONDIE, Peter** [AU/AU]; c/- Queensland University of Technology, School of Human Movement Studies, Victoria Park Road, Kelvin Grove, QLD 4059 (AU). **BARRISKILL, Andrew** [AU/AU]; c/- 14 Mars Road, Lane Cove, NSW 2066 (AU). **CURCIC, Branka** [AU/AU]; c/- 14 Mars Road, Lane Cove, NSW 2066 (AU). **DUNCAN, Michael** [AU/AU]; c/- 14 Mars Road, Lane Cove, NSW 2066 (AU). **PARKER, Simon** [AU/AU]; c/- 14 Mars Road, Lane Cove, NSW 2066 (AU). **PARKER, Tony** [—/AU]; Queensland University of Technology, School of Human Movement Studies, Victoria Park Road, Kelvin Grive, Queensland 4059 (AU).

(74) Agent: **FISHER ADAMS KELLY**; PO Box 1413, Brisbane, QLD 4000 (AU).

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(54) Title: MOTION MONITORING AND ANALYSIS SYSTEM



(57) Abstract: A motion analysis system (10) in which sensor elements (20) attached to movable *body* segments record movement parameters including angular velocity and acceleration. A control device (40) receives the movement parameters and determines an overall motion of the movable body segments. The overall motion is analysed against an acceptable motion model to determine whether the overall motion is within acceptable limits. The sensor elements (20) and control device (40) are lightweight and can be worn during normal movement activities thereby allowing monitoring of work-based activities, such as lifting or typing. The invention is useful for detecting and correcting problems leading to lower back disorders and repetitive strain injuries.



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